Amended Claims under PCT Article 19



New CLAIM P20 Rec'd PCT/PTO 22 NOV 2005

- 1. A method for producing a decorative laminate comprising a carrying layer comprising the following steps:
- impregnating a substrate with a thermosetting and further impregnating the so impregnated substrate with a dispersion comprising thermally expandable microspheres thereby forming a layered material;
- assembling the carrying layer with a decorative layer impregnated with a thermosetting;
- assembling the carrying layer and the layered material whereby the layered material is positioned underside and the decorative layer is positioned topside the carrying layer.
- 2. A method according to claim 1 wherein the decorative layer is impregnated with a melamine resin.
- 3. A method according to any of the preceding claims wherein the layered material forms the outermost underside of the decorative laminate.
- 4. A method according to any of the preceding claims, wherein the method comprises expanding the microspheres.
- 5. A method according to any of the preceding claims, comprising the step of heating at least the layered material without pressing above the temperature at which the microspheres start to expand.
- 6. A method according to any one of the preceding claims, wherein the layered material comprises a paper.

AMENDED SHEET

#PU4U53/8

 A method according to any one of the preceding claims, wherein the laminate is a decorative flooring material.

- A method according to any one of the preceding claims, wherein the laminate is a parquet flooring material.
- 9. A method according to any of the preceding claims wherein the thermally expandable microspheres are dispersed in a thermoplastic polymer.
- 10. A method according to claim 8, wherein the thermoplastic polymer has a glass transition temperature between -100 °C and + 10°C, preferably between -80 °C and -20°C.
- 11. A layered material comprising a carrying layer, a decorative layer and a layered material wherein the layered material comprises a substrate which is impregnated with a thermosetting and is further coated with a dispersion comprising expandable microspheres, and wherein said layered material is positioned underside and the decorative layer is positioned topside the carrying layer.
- 12. A layered material according to claim 11 wherein the microspheres are dispersed within a thermoplastic polymer.
- 13. A layered material according to claim 12 wherein the thermoplastic polymer has a glass transition temperature between –100 °C and + 10°C, preferably between 80 °C and –20°C.

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14. A layered flooring material obtainable by a method comprising impregnating a substrate with a thermosetting, further coating or impregnating the so impregnated substrate with thermally expandable microspheres and bringing together the so impregnated substrate with a carrying layer comprising topside a decorative layer impregnated with a thermosetting, wherein said substrate is positioned underside the carrying layer.

- 15. A layered flooring material obtainable according to claim 14 wherein the thermally expandable microspheres are dispersed in a continuous phase comprising a thermoplastic polymer preferably having a glass transition temperature between –100 °C and + 10°C, preferably between –80 °C and –20°C.
- 16. A layered flooring material obtainable according to claim 14 or 15 wherein the heating is conducted under substantial pressure.
- 17. A layered material according to any of the claims 11-16, wherein the disperse phase comprises a polyurethane.
- 18. A layered material according to any of the claims 11-17, wherein the substrate is a paper.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Ī	Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220				
١	42 832 K	ACTION	as well as, where applicable, item 5 below.				
	International application No.	International filing date (day/month/ye	(Earliest) Priority Date (day/month/year)				
ļ	PCT/EP2004/005378	19/05/2004	23/05/2003				
l	Applicant						
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Į	COVERIGHT SURFACES SWEDEN	AB					
	This International Search Report has bee according to Article 18. A copy is being to	n prepared by this International Searchi ansmitted to the International Bureau.	ng Authority and is transmitted to the applicant				
	This International Search Report consists	of a total of sheets					
	X It is also accompanied by	a copy of each prior art document cited	in this report.				
		international search was carried out on less otherwise indicated under this item	the basis of the international application in the				
	The international search was carried out on the basis of a translation of the International application furnished to this Authority (Rule 23.1(b)).						
	b. With regard to any nucle	otide and/or amino acid sequence dis	closed in the international application, see Box No. I.				
	2. Certain claims were found unsearchable (See Box II).						
	3. Unity of invention is lac	cking (see Box III).		İ			
	4. With regard to the title ,						
	X the text is approved as submitted by the applicant.						
(E)	the text has been establi	shed by this Authority to read as follows					
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	5. With regard to the abstract, X the text is approved as s	ubmitted by the applicant.					
	the text has been establi	shed, according to Rule 38.2(b), by this	Authority as it appears in Box No. IV. The applicant	į			
	may, within one month fr	om the date of mailing of this internation	al search report, submit comments to this Authority.				
	6. With regards to the drawings,						
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INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/005378

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B32B21/00 E04F15/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{tabular}{ll} \begin{tabular}{ll} Minimum documentation searched (classification system followed by classification symbols) \\ IPC 7 & B32B & E04F \end{tabular}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

C. DOCUME	C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.			
Х	US 4 726 986 A (CANNADY JR DANIEL L ET AL) 23 February 1988 (1988-02-23)	1-4,6, 12,15, 17,19,21			
	column 2, line 44 - column 7, line 60; claims; figures; example				
Х	EP 1 254 984 A (JOHNS MANVILLE EUROP GMBH) 6 November 2002 (2002-11-06) paragraphs '0016! - '0040!; claims; example	1,2,6, 10-16,21			
X	US 2001/007710 A1 (IRELAND DOUGLAS ET AL) 12 July 2001 (2001-07-12) paragraphs '0003! - '0027!; examples	1-6,8, 12,15,21			

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.	
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Date of the actual completion of the international search	Date of mailing of the international search report	
5 August 2004	17/08/2004	
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European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Hutton, D	

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